	0.00	30.00	1	30.00	0.60	0.60	0.60	0.62	11.16		
	30.00	40.80	1	10.80	0.60	0.60	0.60	0.63	4.08		
	W0304 3rd Main Road LHS										
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.60	10.80		
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.56	10.08		
	60.00	88.50	1	28.50	0.60	0.60	0.60	0.59	10.09		
	88.50	101.30	1	12.80	0.60	0.60	0.60	0.58	4.45		
	101.30	126.00	1	24.70	0.60	0.60	0.60	0.59	8.74	ramp	
	126.00	156.00	1	20.30							
	156.00	175.00	1	10.00							
	W0304 3rd Main Road RHS										
	0.00	26.20	1	26.20	0.60	0.60	0.60	0.53	8.33	no-drain	
	26.20	34.20	1	8.00						no-drain	
	34.20	64.20	1	30.00	0.60	0.60	0.60	0.56	10.08		
	64.20	92.50	1	28.30	0.60	0.60	0.60	0.56	9.51	cross road	
	92.50	101.00	1	8.50	0.60	0.60	0.60	0.32	1.63		
	101.00	131.00	1	30.00	0.60	0.60	0.60	0.32	5.76	open drain	
	131.00	139.30	1	8.30	0.60	0.60	0.60	0.34	1.69	open drain	
	139.30	144.40	1	5.10						open drain	
	144.40	175.00	1	30.60						cross road	
	W0325 8th Cross Road (LHS West Side)									no work	
	0.00	8.20	1	8.20	0.60	0.60	0.60	0.52	2.56		
	8.20	38.20	1	30.00	0.60	0.60	0.60	0.54	9.72		
	38.20	68.20	1	30.00	0.60	0.60	0.60	0.56	10.08		
	68.20	70.00	1	1.80	0.60	0.60	0.60	0.57	0.62		
	70.00	74.30	1	4.30	0.60	0.60	0.60	0.56	1.44		
	74.30	83.30	1	9.00	0.60	0.60	0.60	0.52	2.81	ramp	
	83.30	113.30	1	30.00	0.60	0.60	0.60	0.56	10.08		
	113.30	118.00	1	4.70	0.60	0.60	0.60	0.58	1.64		
	W0325 8th Cross Road (RHS East Side)										
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.57	10.26		
	30.00	58.80	1	28.80	0.60	0.60	0.60	0.56	9.68		
	58.80	70.20	1	11.40	0.60	0.60	0.60	0.52	3.56		
	70.20	80.00	1	9.80	0.60	0.60	0.60	0.53	3.12	ramp	
	80.00	83.20	1	3.20	0.60	0.60	0.60	0.58	1.12		
	83.20	84.80	1	1.60						ramp	
	84.80	94.00	1	9.20	0.60	0.60	0.60	0.56	3.09	grill	
	94.00	110.50	1	16.50	0.60	0.60	0.60	0.60	5.94	ramp	
	110.50	118.00	1	7.50	0.60	0.60	0.60	0.62	2.79		
	7th Cross Road Brundavana Nagar LHS										
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70		
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.68	12.24		
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.69	12.42		
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.70	12.60		
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.62	11.16		
	150.00	172.00	1	22.00	0.60	0.60	0.60	0.65	8.58		
	7th Cross Road Brundavana Nagar LHS										

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	0.00	30.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.67	12.06	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	150.00	172.00	1	22.00	0.60	0.60	0.60	0.70	9.24	
	6th Cross Road Brundavana Nagar LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	30.00	55.00	1	25.00	0.60	0.60	0.60	0.66	9.90	
	60.00	70.00	1	10.00	0.60	0.60	0.60	0.68	4.08	
	77.00	107.00	1	30.00	0.60	0.60	0.60	0.67	12.06	
	107.00	137.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	137.00	167.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	167.00	185.00	1	18.00	0.60	0.60	0.60	0.69	7.45	
	6th Cross Road Brundavana Nagar RHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.67	12.06	
	150.00	180.00	1	30.00	0.60	0.60	0.60	0.72	12.96	
	180.00	185.00	1	5.00	0.60	0.60	0.60	0.65	1.95	
	5th Cross Road Brundavana Nagar LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.70	12.60	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	120.00	125.00	1	5.00	0.60	0.60	0.60	0.66	1.98	
	5th B Cross Road Brundavana Nagar LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.67	12.06	
	30.00	37.00	1	7.00	0.60	0.60	0.60	0.65	2.73	
	5th B Cross Road Brundavana Nagar RHS									
	8.00	30.00	1	22.00	0.60	0.60	0.60	0.69	9.11	
	30.00	37.00	1	7.00	0.60	0.60	0.60	0.70	2.94	
	5th Cross Road Brundavana Nagar Contiuene LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	30.00	55.00	1	25.00	0.60	0.60	0.60	0.66	9.90	
	4th Cross Road Brundavana Nagar LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.67	12.06	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.70	12.60	
	150.00	180.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	180.00	198.00	1	18.00	0.60	0.60	0.60	0.65	7.02	
	4th Cross Road Brundavana Nagar RHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.70	12.60	

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	60.00	90.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	150.00	180.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	180.00	198.00	1	18.00	0.60	0.60	0.60	0.67	7.24	
	4th Cross Road Brundavana Nagar LHS Right Side									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.70	12.60	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	150.00	180.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	180.00	182.00	1	2.00	0.60	0.60	0.60	0.68	0.82	
	3rd Cross Road Brundavana Nagar LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.70	12.60	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	150.00	178.00	1	28.00	0.60	0.60	0.60	0.65	10.92	
	192.00	222.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	222.00	225.00	1	3.00	0.60	0.60	0.60	0.68	1.22	
	3rd Cross Road Brundavana Nagar RHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.70	12.60	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	150.00	178.00	1	28.00	0.60	0.60	0.60	0.65	10.92	
	192.00	222.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	222.00	225.00	1	3.00	0.60	0.60	0.60	0.68	1.22	
	2nd Cross Road Brundavana Nagar LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	30.00	42.00	1	12.00	0.60	0.60	0.60	0.68	4.90	
	53.00	83.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	83.00	113.00	1	30.00	0.60	0.60	0.60	0.70	12.60	
	113.00	143.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	143.00	173.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	173.00	178.00	1	5.00	0.60	0.60	0.60	0.66	1.98	
	192.00	222.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	222.00	243.00	1	21.00	0.60	0.60	0.60	0.67	8.44	
	250.00	280.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	2nd Cross Road Brundavana Nagar RHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	30.00	42.00	1	12.00	0.60	0.60	0.60	0.70	5.04	
	53.00	83.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	83.00	113.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	113.00	143.00	1	30.00	0.60	0.60	0.60	0.66	11.88	

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	143.00	173.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	173.00	178.00	1	5.00	0.60	0.60	0.60	0.65	1.95	
	192.00	222.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	222.00	243.00	1	21.00	0.60	0.60	0.60	0.69	8.69	
	250.00	270.00	1	20.00	0.60	0.60	0.60	0.70	8.40	
	7th Cross Road Brundavana Nagar RHS right side									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.67	12.06	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	150.00	180.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	180.00	210.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	210.00	220.00	1	10.00	0.60	0.60	0.60	0.70	4.20	
	7th Cross Road Brundavana Nagar LHS right side									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.67	12.06	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	150.00	180.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	180.00	210.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	210.00	220.00	1	10.00	0.60	0.60	0.60	0.70	4.20	
	8th Cross Road Brundavana Nagar RHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.67	12.06	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	150.00	163.00	1	13.00	0.60	0.60	0.60	0.68	5.30	
	8th Cross Road Brundavana Nagar LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.70	12.60	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	150.00	163.00	1	13.00	0.60	0.60	0.60	0.67	5.23	
	8th Cross Road Brundavana Nagar LHS Right Side									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.70	12.60	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	150.00	180.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	180.00	186.00	1	6.00	0.60	0.60	0.60	0.68	2.45	
	8th Cross Road Brudanavana nagar LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.68	12.24	

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	60.00	90.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	90.00	91.00	1	1.00	0.60	0.60	0.60	0.70	0.42	
	97.00	123.80	1	26.80	0.60	0.60	0.60	0.62	9.97	
	129.10	151.80	1	22.70	0.60	0.60	0.60	0.65	8.85	
	158.20	181.00	1	22.80	0.60	0.60	0.60	0.66	9.03	
	188.00	218.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	225.00	242.80	1	17.80	0.60	0.60	0.60	0.65	6.94	
	247.00	261.50	1	14.50	0.60	0.60	0.60	0.68	5.92	
	267.00	297.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	297.00	308.60	1	11.60	0.60	0.60	0.60	0.70	4.87	
	315.50	345.50	1	30.00	0.60	0.60	0.60	0.62	11.16	
	345.50	347.60	1	2.10	0.60	0.60	0.60	0.65	0.82	
	355.70	385.70	1	30.00	0.60	0.60	0.60	0.66	11.88	
	385.70	387.00	1	1.30	0.60	0.60	0.60	0.68	0.53	
	395.00	404.00	1	9.00	0.60	0.60	0.60	0.67	3.62	
	8th Cross Road Brudanavana nagar RHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.69	12.42	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	96.00	118.10	1	22.10	0.60	0.60	0.60	0.68	9.02	
	123.80	153.80	1	30.00	0.60	0.60	0.60	0.69	12.42	
	153.80	158.20	1	4.40	0.60	0.60	0.60	0.70	1.85	
	163.40	193.40	1	30.00	0.60	0.60	0.60	0.62	11.16	
	193.40	201.00	1	7.60	0.60	0.60	0.60	0.65	2.96	
	209.00	239.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	239.00	261.50	1	22.50	0.60	0.60	0.60	0.68	9.18	
	267.00	297.00	1	30.00	0.60	0.60	0.60	0.67	12.06	
	297.00	308.60	1	11.60	0.60	0.60	0.60	0.65	4.52	
	315.50	345.50	1	30.00	0.60	0.60	0.60	0.68	12.24	
	345.50	347.60	1	2.10	0.60	0.60	0.60	0.69	0.87	
	355.70	385.70	1	30.00	0.60	0.60	0.60	0.70	12.60	
	385.70	404.60	1	18.90	0.60	0.60	0.60	0.62	7.03	
	9th Cross Road LHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	60.00	89.00	1	29.00	0.60	0.60	0.60	0.67	11.66	
	94.30	119.50	1	25.20	0.60	0.60	0.60	0.65	9.83	
	123.90	153.90	1	30.00	0.60	0.60	0.60	0.68	12.24	
	153.90	166.50	1	12.60	0.60	0.60	0.60	0.69	5.22	
	9th Cross Road RHS									
	0.00	30.00	1	30.00	0.60	0.60	0.60	0.62	11.16	
	30.00	60.00	1	30.00	0.60	0.60	0.60	0.65	11.70	
	60.00	90.00	1	30.00	0.60	0.60	0.60	0.66	11.88	
	90.00	120.00	1	30.00	0.60	0.60	0.60	0.68	12.24	
	120.00	150.00	1	30.00	0.60	0.60	0.60	0.67	12.06	

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	150.00		1	16.50	0.60	0.60	0.60	0.72	7.13	
	Culverts									
	W0312		1	5.20	1.20	1.20	1.20	1.30	8.11	
	W0304		1	4.60	1.20	1.20	1.20	1.30	7.18	
	W0190		1	5.80	1.20	1.20	1.20	1.30	9.05	
	W0307		1	5.80	1.20	1.20	1.20	1.30	9.05	
	W0333		1	6.40	1.20	1.20	1.20	1.30	9.98	
	W0337		1	8.10	1.20	1.20	1.20	1.30	12.64	
	W0341		1	6.20	1.20	1.20	1.20	1.30	9.67	
	W0331		1	7.00	1.20	1.20	1.20	1.30	10.92	
	W0196		1	5.30	1.20	1.20	1.20	1.30	8.27	
	W0325		1	6.30	1.20	1.20	1.20	1.30	9.83	
	W0174		1	4.00	1.20	1.20	1.20	1.30	6.24	
	W0160		1	4.20	1.20	1.20	1.20	1.30	6.55	
								Total Qty Work Done	3222.19	Cum
								Qty Payable in this bill	3222.19	Cum

Contractor Representative

Assistant Engineer
Ward No 17
BBMP

SAPIENCE CONSULTA... Bangalore-59

Consultant Representative

Asst.Executive Engineer
Yashwanthapura Sub-Division
BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name Of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

Measurement Sheet

First And Part Bill

Item No: 3

Item Name: Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift

SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	BI (m)	Avg B (m)	D (m)	QTY	REMARKS
	Bed Concrete								
	Culverts								
	W0312	1	5.20	1.20	1.20	1.20	0.15	0.94	
	W0304	1	4.60	1.20	1.20	1.20	0.15	0.83	
	W0190	1	5.80	1.20	1.20	1.20	0.15	1.04	
	W0307	1	5.80	1.20	1.20	1.20	0.15	1.04	
	W0333	1	6.40	1.20	1.20	1.20	0.15	1.15	
	W0337	1	8.10	1.20	1.20	1.20	0.15	1.46	
	W0341	1	6.20	1.20	1.20	1.20	0.15	1.12	
	W0331	1	7.00	1.20	1.20	1.20	0.15	1.26	
	W0196	1	5.30	1.20	1.20	1.20	0.15	0.95	
	W0325	1	6.30	1.20	1.20	1.20	0.15	1.13	
	W0174	1	4.00	1.20	1.20	1.20	0.15	0.72	
	W0160	1	4.20	1.20	1.20	1.20	0.15	0.76	
							Total Qty Work Done	12.40	Cum
							Qty Payable in this bill	12.40	Cum

Contractor Representative

Assistant Engineer
Ward No 17
BBMP

Consultant Representative

Asst.Executive Engineer
Yashwanthapura Sub-Division
BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name Of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

Measurement Sheet

First And Part Bill

Item No:	4
Item Name:	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15cm Complete as per the direction of Engineer in charge with all lead and lift

SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Vent Portion								
	Culverts								
	W0312	1	5.20	1.00	1.00	1.00	0.15	0.78	
	W0304	1	4.60	1.00	1.00	1.00	0.15	0.69	
	W0190	1	5.80	1.00	1.00	1.00	0.15	0.87	
	W0307	1	5.80	1.00	1.00	1.00	0.15	0.87	
	W0333	1	6.40	1.00	1.00	1.00	0.15	0.96	
	W0337	1	8.10	1.00	1.00	1.00	0.15	1.22	
	W0341	1	6.20	1.00	1.00	1.00	0.15	0.93	
	W0331	1	7.00	1.00	1.00	1.00	0.15	1.05	
	W0196	1	5.30	1.00	1.00	1.00	0.15	0.80	
	W0325	1	6.30	1.00	1.00	1.00	0.15	0.95	
	W0174	1	4.00	1.00	1.00	1.00	0.15	0.60	
	W0160	1	4.20	1.00	1.00	1.00	0.15	0.63	
	Wall								
	Culverts								
	W0312	2	5.20	0.20	0.20	0.20	0.90	1.87	
	W0304	2	4.60	0.20	0.20	0.20	0.90	1.66	
	W0190	2	5.80	0.20	0.20	0.20	0.90	2.09	
	W0307	2	5.80	0.20	0.20	0.20	0.90	2.09	
	W0333	2	6.40	0.20	0.20	0.20	0.90	2.30	
	W0337	2	8.10	0.20	0.20	0.20	0.90	2.92	
	W0341	2	6.20	0.20	0.20	0.20	0.90	2.23	
	W0331	2	7.00	0.20	0.20	0.20	0.90	2.52	
	W0196	2	5.30	0.20	0.20	0.20	0.90	1.91	
	W0325	2	6.30	0.20	0.20	0.20	0.90	2.27	
	W0174	2	4.00	0.20	0.20	0.20	0.90	1.44	

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	W0160		2	4.20	0.20	0.20	0.20	0.90	1.51	
								Total Qty Work Done	35.14	Cum
								Qty Payable in this bill	35.14	Cum

Contractor Representative

29/10/2020

Assistant Engineer
Ward No 17
BBMP

Consultant Representative

29/10/2020

Asst Executive Engineer
Yashwanthapura Sub-Division
BBMP

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RUHAT BANGALORE MAHANAGARA PALIKE

Of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

No : 5

Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. Complete as per the direction of Engineer in charge with all lead and lift

Pre measurement of Steel

No	Dia of Bar in mm	Side	Spacing of Bar	Nos	Length of Bar in mtr	Total Length of Bar in mtr	Type of Bar	Standard Weight per Meter in kgs	Weight of Steel in kgs	Remarks
					Culverts					
	10	2	125mm C/C	42	2.40	199.68	Main Bar	0.617	123.26	
	8	2	125mm C/C	19	5.20	199.68	Distrubuation	0.395	78.89	
	10	2	125mm C/C	37	2.40	176.64	Main Bar	0.617	109.04	
	8	2	125mm C/C	19	4.60	176.64	Distrubuation	0.395	69.78	
	10	2	125mm C/C	46	2.40	222.72	Main Bar	0.617	137.48	
	8	2	125mm C/C	19	5.80	222.72	Distrubuation	0.395	87.99	
	10	2	125mm C/C	46	2.40	222.72	Main Bar	0.617	137.48	
	8	2	125mm C/C	19	5.80	222.72	Distrubuation	0.395	87.99	
	10	2	125mm C/C	51	2.40	245.76	Main Bar	0.617	151.70	
	8	2	125mm C/C	19	6.40	245.76	Distrubuation	0.395	97.09	
	10	2	125mm C/C	65	2.40	311.04	Main Bar	0.617	192.00	
	8	2	125mm C/C	19	8.10	311.04	Distrubuation	0.395	122.88	
	10	2	125mm C/C	50	2.40	238.08	Main Bar	0.617	146.96	
	8	2	125mm C/C	19	6.20	238.08	Distrubuation	0.395	94.06	
	10	2	125mm C/C	56	2.40	268.80	Main Bar	0.617	165.93	
	8	2	125mm C/C	19	7.00	268.80	Distrubuation	0.395	106.19	
	10	2	125mm C/C	42	2.40	203.52	Main Bar	0.617	125.63	
	8	2	125mm C/C	19	5.30	203.52	Distrubuation	0.395	80.40	
	10	2	125mm C/C	50	2.40	241.92	Main Bar	0.617	149.33	
	8	2	125mm C/C	19	6.30	241.92	Distrubuation	0.395	95.57	
	10	2	125mm C/C	32	2.40	153.60	Main Bar	0.617	94.81	
	8	2	125mm C/C	19	4.00	153.60	Distrubuation	0.395	60.68	
	10	2	125mm C/C	34	2.40	161.28	Main Bar	0.617	99.56	
	8	2	125mm C/C	19	4.20	161.28	Distrubuation	0.395	63.72	
								Total Quantity of Steel in Kg's	2678.4	kgs
								Total Quantity of Steel in Tonne's	2.68	Tonnes
								Total Quantity of Steel Payable in this Bill in Tonne's	2.68	Tonnes

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CONSULTANTS & ENGINEERS Bangalore-59

Contractor Representative

Assistant Engineer
Ward No 17

Consultant Representative

Asst Executive Engineer
Yashwanthapura Sub-Division
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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BANGALORE MAHANAGARA PALIKE

Name Of Work : Comprehensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

Measurement Sheet

First And Part Bill

Item No: 12

Item Name: Providing and Fixing RCC Precast Cover Slab of 250 mm Thick for Drains in Cement Concrete M-20 using graded granite Jelly of 20 mm and down size with steel Reinforcement, including form work lift charges, curing and concrete finished surface on both sides etc., as per drawing and the direction of Enginner-in-charge Data Rate

SLNO	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Vent Portion								
	Culverts								
	W0312	1	5.20	1.80	1.80	1.80		9.36	
	W0304	1	4.60	1.80	1.80	1.80		8.28	
	W0190	1	5.80	1.80	1.80	1.80		10.44	
	W0307	1	5.80	1.80	1.80	1.80		10.44	
	W0333	1	6.40	1.80	1.80	1.80		11.52	
	W0337	1	8.10	1.80	1.80	1.80		14.58	
	W0341	1	6.20	1.80	1.80	1.80		11.16	
	W0331	1	7.00	1.80	1.80	1.80		12.60	
	W0196	1	5.30	1.80	1.80	1.80		9.54	
	W0325	1	6.30	1.80	1.80	1.80		11.34	
	W0174	1	4.00	1.60	1.60	1.60		6.40	
	W0160	1	4.20	1.60	1.60	1.60		6.72	
							Total Qty Work Done	**122.38**	**Sqm**
							Qty Payable in this bill	**122.38**	**Sqm**

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Contractor Representative

14/12/2020

Assistant Engineer
Ward No 17
BBMP

Consultant Representative

14/12/2020

Asst.Executive Engineer
Yashwanthapura Sub-Division
BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name Of Work : Compreshensive development of roads and drains in Muthyalanagara, LC-4A, Mohankumarnagara, Sundar nagara and surrounding areas in ward no-17 under PACKAGE-2019-20 RRN-DIV-(09)

Measurement Sheet

First And Part Bill

Item No:	6
Item Name:	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.-do with solid concrete blocks of size 400*200*200 mm Complete as per the direction of Engineer in charge with all lead and lift

SLNO	CHAINAGE Land Mark		NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	W0331 2nd main Road from #7.A yogi (LHS East Side)									
	0.00	30.00	2	30.00	-	-	-	0.40	24.00	
	30.00	49.50	2	19.50	-	-	-	0.20	7.80	
	W0331 2nd main Road from #7.A yogi (RHS West Side)									
	0.00	10.50	2	10.50	-	-	-	0.40	8.40	
	10.50	13.70	2	3.20	-	-	-	0.20	1.28	
	13.70	23.90	2	10.20	-	-	-	0.40	8.16	ramp
	23.90	49.50	2	25.60	-	-	-	0.20	10.24	
	W0329 3rd main Road (LHS East Side)									
	0.00	30.00	2	30.00	-	-	-	0.20	12.00	
	30.00	60.00	2	30.00	-	-	-	0.20	12.00	
	W0329 3rd main Road (RHS West Side)									
	0.00	16.20	2	16.20	-	-	-	0.40	12.96	
	16.20	25.00	2	8.80	-	-	-	0.20	3.52	
	25.00	34.10	2	9.10	-	-	-	0.40	7.28	
	34.10	41.80	2	7.70	-	-	-	0.20	3.08	ramp
	41.80	60.00	2	18.20	-	-	-	0.40	14.56	
	W0323 4th main Road (LHS East Side)									
	0.00	30.00	2	30.00	-	-	-	0.20	12.00	
	30.00	60.00	2	30.00	-	-	-	0.20	12.00	
	60.00	72.20	2	12.20	-	-	-	0.20	4.88	
	W0323 4th main Road (RHS West Side)									
	0.00	30.00	2	30.00	-	-	-	0.40	24.00	
	30.00	52.30	2	22.30	-	-	-	0.20	8.92	
	52.30	72.20	2	19.90	-	-	-	0.40	15.92	
	W0321 5th main Road (LHS East Side)									
	0.00	24.60	2	24.60	-	-	-	0.40	19.68	
	24.60	33.80	2	9.20	-	-	-	0.20	3.68	ramp
	33.80	42.20	2	8.40	-	-	-	0.40	6.72	
	42.20	45.30	2	3.10	-	-	-	0.20	1.24	
	45.30	60.00	2	14.70	-	-	-	0.20	5.88	
	60.00	69.00	2	9.00	-	-	-	0.40	7.20	ramp

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69.00	75.40	2	6.40	-	-	-	0.20	2.56	
75.40	83.00	2	7.60	-	-	-	0.40	6.08	
W0321 5th main Road (RHS West Side)									
0.00	20.00	2	20.00	-	-	-	0.40	16.00	
20.00	38.00	2	18.00	-	-	-	0.20	7.20	ramp
38.00	46.20	2	8.20	-	-	-	0.20	3.28	
46.20	49.80	2	3.60	-	-	-	0.40	2.88	
49.80	55.60	2	5.80	-	-	-	0.20	2.32	
55.60	64.80	2	9.20	-	-	-	0.20	3.68	ramp
64.80	83.00	2	18.20	-	-	-	0.40	14.56	
W0311 6th main Road (LHS East Side)									
0.00	30.00	2	30.00	-	-	-	0.20	12.00	
30.00	60.00	2	30.00	-	-	-	0.40	24.00	
60.00	90.00	2	30.00	-	-	-	0.20	12.00	
90.00	92.00	2	2.00	-	-	-	0.40	1.60	
W0311 6th main Road (RHS West Side)									
0.00	30.00	2	30.00	-	-	-	0.40	24.00	
30.00	60.00	2	30.00	-	-	-	0.20	12.00	
60.00	88.00	2	28.00	-	-	-	0.40	22.40	
88.00	92.00	2	4.00	-	-	-	0.20	1.60	
W0309 7th main Road (LHS East Side)									
0.00	30.00	2	30.00	-	-	-	0.20	12.00	
30.00	33.00	2	3.00	-	-	-	0.40	2.40	
33.00	36.80	2	3.80	-	-	-	0.20	1.52	
36.80	66.80	2	30.00	-	-	-	0.40	24.00	
66.80	94.70	2	27.90	-	-	-	0.40	22.32	
94.70	106.00	2	11.30	-	-	-	0.20	4.52	
W0309 7th main Road (RHS West Side)									
0.00	30.00	2	30.00	-	-	-	0.20	12.00	
30.00	60.00	2	30.00	-	-	-	0.40	24.00	
60.00	90.00	2	30.00	-	-	-	0.20	12.00	
90.00	97.70	2	7.70	-	-	-	0.40	6.16	
97.70	106.00	2	8.30	-	-	-	0.20	3.32	ramp
W0301 8th main Road (LHS Eest Side) Ramaiah samadi beside									
0.00	30.00	2	30.00	-	-	-	0.40	24.00	
30.00	60.00	2	30.00	-	-	-	0.20	12.00	
60.00	90.00	2	30.00	-	-	-	0.40	24.00	
90.00	117.00	2	27.00	-	-	-	0.20	10.80	
W0301 8th main Road (RHS West Side) Ramaiah samadi beside									
0.00	23.40	2	18.20						No drain
23.40	44.40	2	21.00	-	-	-	0.40	16.80	
44.40	46.60	2	2.20	-	-	-	0.20	0.88	
46.60	76.60	2	30.00	-	-	-	0.20	12.00	
76.60	104.40	2	27.80	-	-	-	0.40	22.24	
104.40	114.00	2	9.60	-	-	-	0.20	3.84	ramp
114.00	117.20	2	3.20	-	-	-	0.40	2.56	
W0154 #111 sudhanva (LHS North Side)									
0.00	26.50	2	26.50	-	-	-	0.20	10.60	

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	26.50	31.00	2	4.50						
	31.00	49.50	2	18.50	-	-	-	0.20	7.40	cross road
	W0299 9th main Road (LHS East Side)									
	0.00	30.00	2	30.00	-	-	-	0.20	12.00	
	30.00	45.50	2	15.50	-	-	-	0.40	12.40	
	45.50	53.80	2	8.30	-	-	-	0.20	3.32	ramp
	53.80	65.00	2	11.20	-	-	-	0.40	8.96	
	65.00	94.00	2	29.00	-	-	-	0.20	11.60	
	W0299 9th main Road (RHS West Side)									
	0.00	30.00	2	30.00	-	-	-	0.20	12.00	
	30.00	37.20	2	7.20	-	-	-	0.40	5.76	
	37.20	58.00	2	20.80	-	-	-	0.20	8.32	
	58.00	88.00	2	30.00	-	-	-	0.20	12.00	
	88.00	94.00	2	6.00	-	-	-	0.40	4.80	
	W0293 10th main Road (LHS East Side) Ramaiah samadi Right side									
	0.00	29.30	2	29.30						
	29.30	34.50	2	5.20						No drain
	34.50	50.00	2	15.50	-	-	-	0.20	6.20	cross road
	50.00	55.50	2	5.50	-	-	-	0.40	4.40	ramp
	55.50	85.50	2	30.00	-	-	-	0.40	24.00	
	85.50	115.50	2	30.00	-	-	-	0.40	24.00	
	W0293 10th main Road (RHS West Side) Ramaiah samadi Right side									
	0.00	30.00	2	30.00						No drain
	30.00	43.20	2	13.20						No drain
	43.20	57.30	2	14.10	-	-	-	0.40	11.28	
	57.30	62.90	2	5.60						cross road
	62.90	83.60	2	20.70	-	-	-	0.20	8.28	ramp
	83.60	87.60	2	4.00	-	-	-	0.20	1.60	
	87.60	92.70	2	5.10						cross road
	92.70	118.80	2	26.10	-	-	-	0.40	20.88	
	118.80	123.10	2	4.30						cross road
	W0152 Railway Track (RHS south Side) Ramaiah samadi Road									
	0.00	30.00	2	30.00	-	-	-	0.20	12.00	
	30.00	48.50	2	18.50	-	-	-	0.20	7.40	
	48.50	54.20	2	5.70						cross road
	54.20	80.50	2	26.30	-	-	-	0.20	10.52	
	80.50	86.70	2	6.20						cross road
	86.70	98.20	2	11.50	-	-	-	0.40	9.20	ramp
	98.20	112.60	2	14.40	-	-	-	0.40	11.52	
	112.60	118.90	2	6.30						cross road
	118.90	145.50	2	26.60	-	-	-	0.20	10.64	
	145.50	152.30	2	6.80						cross road
	152.30	157.20	2	4.90	-	-	-	0.20	1.96	
	157.20	164.70	2	7.50	-	-	-	0.40	6.00	ramp
	164.70	179.00	2	14.30	-	-	-	0.20	5.72	
	179.00	184.60	2	5.60						cross road
	184.60	202.00	2	17.40	-	-	-	0.40	13.92	
	202.00	205.60	2	3.60						iron grill

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	205.60	213.50	2	7.90	-	-	-	0.40	6.32	
	213.50	219.30	2	5.80						cross road
	219.30	248.20	2	28.90	-	-	-	0.20	11.56	
	248.20	252.00	2	3.80	-	-	-	0.20	1.52	ramp
	252.00	257.70	2	5.70	-	-	-	0.20	2.28	
	257.70	265.00	2	7.30						cross road
	265.00	295.00	2	30.00	-	-	-	0.40	24.00	
	295.00	302.00	2	7.00	-	-	-	0.20	2.80	
	W0158 15th main Road (LHS South Side) Brindavan Nagar from sri swarnagiri nilaya									
	0.00	30.00	2	30.00	-	-	-	0.20	12.00	
	30.00	41.80	2	11.80	-	-	-	0.40	9.44	
	41.80	53.90	2	12.10	-	-	-	0.20	4.84	
	W0158 15th main Road (RHS North Side) Brindavan Nagar from sri swarnagiri nilaya									
	0.00	30.00	2	30.00	-	-	-	0.40	24.00	
	30.00	50.20	2	20.20	-	-	-	0.20	8.08	
	W0160 14th main Road (LHS North Side) Brindavan Nagar fromvelan Ladies Tailor									
	0.00	30.00	2	30.00	-	-	-	0.40	24.00	
	30.00	33.00	2	3.00	-	-	-	0.20	1.20	
	33.00	47.70	2	14.70	-	-	-	0.40	11.76	
	W0160 14th main Road (RHS South Side) Brindavan Nagar fromvelan Ladies Tailor									
	0.00	24.90	2	24.90	-	-	-	0.40	19.92	
	24.90	29.70	2	4.80	-	-	-	0.20	1.92	
	29.70	45.20	2	15.50	-	-	-	0.40	12.40	ramp
	45.20	71.60	2	26.40	-	-	-	0.20	10.56	
	W0293 13th main Road (LHS South Side) From Appartment									
	0.00	19.20	2	19.20	-	-	-	0.40	15.36	
	19.20	33.30	2	14.10	-	-	-	0.20	5.64	
	33.30	63.30	2	30.00	-	-	-	0.20	12.00	
	63.30	73.90	2	10.60	-	-	-	0.40	8.48	
	73.90	84.40	2	10.50	-	-	-	0.20	4.20	
	W0293 13th main Road (RHS West Side) From Appartment									
	0.00	16.00	2	16.00	-	-	-	0.40	12.80	
	16.00	33.20	2	17.20	-	-	-	0.20	6.88	
	33.20	48.60	2	15.40	-	-	-	0.20	6.16	
	48.60	63.30	2	9.50						no-drain
	63.30	84.40	2	21.10	-	-	-	0.40	16.88	
	W0166 12th main Road (LHS North Side) From Lakshmi Furniture									
	0.00	21.00	2	21.00	-	-	-	0.20	8.40	
	21.00	30.00	2	9.00	-	-	-	0.20	3.60	
	30.00	40.40	2	10.40	-	-	-	0.20	4.16	
	40.40	42.70	2	2.30	-	-	-	0.40	1.84	
	42.70	48.40	2	5.70	-	-	-	0.20	2.28	
	48.40	58.40	2	10.00	-	-	-	0.40	8.00	
	58.40	64.00	2	5.60	-	-	-	0.20	2.24	
	64.00	67.00	2	3.00	-	-	-	0.40	2.40	
	67.00	72.40	2	5.40	-	-	-	0.20	2.16	
	72.40	98.20	2	25.80	-	-	-	0.40	20.64	
	W0166 12th main Road (RHS South Side) From Lakshmi Furniture									

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